

Human Systems Integration and the Systems Engineer



Presented by:
John Winters
Senior Human Factors
Engineer, Basic Commerce
and Industries

Wednesday, 20 Oct 2010 (6:00 – 8:00 pm)

**Applied Physics Laboratory, Johns Hopkins University
11100 Johns Hopkins Rd Laurel MD 20723 (Main Entrance – Lobby 1)**

Presentation: The primary goals of Human Systems Integration (HSI) are to reduce total ownership cost and optimize overall system and mission performance, which are also among the core goals of systems engineering. Even with these shared goals, approaches for coordinating HSI with systems engineering activities can vary widely. It is also common to have a disconnect between high-level policies for HSI and objectives at the program or engineering level. Effective communication about the scope and objectives of HSI is necessary for HSI to positively influence cost and performance. This presentation will discuss how your basic conception of HSI impacts your ability to communicate about the integration of HSI and its domains into systems engineering activities. It will also identify and address solutions to common obstacles or barriers to implementation of HSI in a systems engineering context.

Speaker: Mr. John Winters is a Senior Human Factors Engineer at Basic Commerce and Industries (BCI) in Dahlgren, VA, where he also serves as the Dahlgren Division's Program Director for Human Systems Integration. BCI primarily supports Navy programs through the Naval Surface Warfare Center Dahlgren Division. Currently, Mr. Winters' primary area of work supports a demonstration to integrate control of UAVs into launch and recovery functions aboard aircraft carriers. He recently organized and executed evaluations of new layouts for surface combatant combat information centers, including calculating the efficiency of alternative layouts and performing mission-specific usability evaluations. His research experience includes demonstration of performance improvements with changes in symbology and automated watch turnover. He has also supported development of HSI policy at the systems command level and for the Navy as a whole, and has conducted HSI assessment or certification of multiple programs.

Note: Dinner will be held in the Howard County Room #3 (Enter the Main Laboratory Entrance, Lobby 1, and take a right at the guard station into the main cafeteria. We're down at the end of the hallway in the very last dining room.) Topic discussion will follow dinner.

Delicious friendly networking buffet dinner: Celebrate Oktoberfest with us - Bratwurst and Knockwurst; Braised Red cabbage; Sauerkraut; Cucumber and caraway salad, rolls and butter, dessert, coffee and iced tea.

Dinner Reservations: To register for dinner, contact [Glenn Gillaspy](mailto:Glenn.Gillaspy@nswc.navy.mil)

Dinner Cost: Guests: **\$20**; INCOSE members: **\$15** if payment is received by Oct 15th, 2010, **\$20** afterwards. To pay by credit card or PayPal, visit our website: <http://www.incose.org/chesapek/>; or to pay by USPS, mail checks (payable to INCOSE-CC) to:

INCOSE-CC, P O Box 535, Laurel, MD 20725 - 0535.

Dinner Cancellation Policy: If you make a dinner reservation and then find that you will be unable to attend, please notify [Glenn Gillaspy](mailto:Glenn.Gillaspy@nswc.navy.mil) by Monday, Oct 18th, 2010. There will be no refunds after Monday, Oct 18th, 2010.

Presentation ONLY: FREE (no reservations necessary)

Corporate Sponsor: We wish to thank the Applied Physics Laboratory for supporting the systems engineering profession through use of their facilities.

Our Evening's Agenda

5:45 – 6:00 pm	Arrival and Socializing
6:00 – 6:45 pm	Dinner
6:45 – 6:50 pm	Member Introductions
6:50 – 6:55 pm	Chapter Business Items
7:00 – 8:00 pm	Presentation

Directions: **JHU APL**, 11100 Johns Hopkins Road, Laurel, Maryland 20723, Phone (443) 778-5000
See APL's Visitor Guide for more: <http://www.jhuapl.edu/newscenter/visitor/default.asp>

From Washington DC and Capital Beltway (I-495):

Take I-95 North toward Baltimore, 10 miles to Columbia exit (MD Route 32 West),
Go 2.5 miles to the Washington DC exit (US Route 29 South).
Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

Or from the Capital Beltway (I-495):

Take US Route 29 North (Colesville Road) 10 miles and follow signs for the turn onto Johns Hopkins Road.

From Baltimore and Baltimore Beltway (I-695):

Take I-95 South toward Washington DC.
Go 13 miles and take Columbia exit (MD Route 32 West).
Go 2.5 miles and take Washington DC exit (US Route 29 South).
Go 1.5 miles south and take Johns Hopkins Road exit (bear right at the top of the hill).

Once you're on Johns Hopkins Road:

APL is a half-mile west of US Route 29 on your right side. Go past the first entrance, continuing past the pond and take the next right turn onto a tree-lined lane. Park in the visitor's lot on your left side. Enter at the main entrance marked **Building 1** (flagpoles and traffic circle in front).

Dinner is held in the Howard County Room #3 located at the end of the cafeteria hallway to the right of the entryway just before the Guard's desk.

